

# SEQUENCE LISTING

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Toolanen, Göran  
Holmgren, Gösta

<120> A NOVEL MUTATED NERVE GROWTH FACTOR BETA GENE, PROTEINS ENCODED THEREBY, AND PRODUCTS AND METHODS RELATED THERETO

<130> 77634

<140> PCT/SE2004/001549

<141> 2004-10-25

<150> US 60/481,546

<151> 2003-10-23

<150> SE 0302789-3

<151> 2003-10-23

<160> 17

<170> PatentIn version 3.2

<210> 1

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> CDS

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agt gtc agc gtg tgg gtt ggg gat aag acc acc gcc aca gac atc aag	96
Ser Val Ser Val Trp Val Gly Asp Lys Thr Thr Ala Thr Asp Ile Lys	
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ggc aag gag gtg atg gtg ttg gga gag gtg aac att aac aac agt gta	144
Gly Lys Glu Val Met Val Leu Gly Glu Val Asn Ile Asn Asn Ser Val	
35 40 45	

ttc aaa cag tac ttt ttt gag acc aag tgc cgg gac cca aat ccc gtt	192
Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val	
50 55 60	

gac agc ggg tgc cgg ggc att gac tca aag cac tgg aac tca tat tgt	240
Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys	
65 70 75 80	

acc acg act cac acc ttt gtc aag gcg ctg acc atg gat ggc aag cag	288
Thr Thr Thr His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Gln	
85 90 95	

gct gcc tgg cgg ttt atc cgg ata gat acg gcc tgt gtg tgt gtg ctc 336  
 Ala Ala Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu  
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Gly Lys Glu Val Met Val Leu Gly Glu Val Asn Ile Asn Asn Ser Val  
           35                  40                  45

Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val  
           50                  55                  60

Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys  
 65                  70                  75                  80

Thr Thr Thr His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Gln  
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agt gtc agc gtg tgg gtt ggg gat aag acc acc gcc aca gac atc aag				96
Ser Val Ser Val Trp Val Gly Asp Lys Thr Thr Ala Thr Asp Ile Lys	20	25	30	
ggc aag gag gtg atg gtg ttg gga gag gtg aac att aac aac agt gta				144
Gly Lys Glu Val Met Val Leu Gly Glu Val Asn Ile Asn Asn Ser Val	35	40	45	
ttc aaa cag tac ttt ttt gag acc aag tgc cgg gac cca aat ccc gtt				192
Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val	50	55	60	
gac agc ggg tgc cgg ggc att gac tca aag cac tgg aac tca tat tgt				240
Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys	65	70	75	80
acc acg act cac acc ttt gtc aag gcg ctg acc atg gat ggc aag cag				288
Thr Thr Thr His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Gln	85	90	95	
gct gcc tgg tgg ttt atc cgg ata gat acg gcc tgt gtg tgt gtg ctc				336
Ala Ala Trp Trp Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu	100	105	110	
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Ser Arg Lys Ala Val Arg Arg Ala	115	120		

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Phe Lys Gln Tyr Phe Phe Glu Thr Lys Cys Arg Asp Pro Asn Pro Val	50	55	60	
Asp Ser Gly Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys	65	70	75	80
Thr Thr Thr His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Gln	85	90	95	

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Ser Arg Lys Ala Val Arg Arg Ala  
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Lys Ala Val Arg  
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His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Asn Gln Ala Ala  
20 25 30

Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg  
35 40 45

Lys Ala Gly Arg  
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Cys Arg Gly Ile Asp Ser Lys His Trp Asn Ser Tyr Cys Thr Thr Thr  
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His Thr Phe Val Lys Ala Leu Thr Thr Asp Glu Lys Asn Gln Ala Ala  
20 25 30

Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg  
35 40 45

Lys Ala Thr Arg  
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<212> PRT  
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His Thr Phe Val Lys Ala Leu Thr Thr Asp Asp Lys Asn Gln Ala Ala  
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Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg  
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Lys Ala Ala Arg  
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His Thr Phe Val Lys Ala Leu Thr Thr Ala Asn Lys Asn Gln Ala Ala  
20 25 30

Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Asn Arg  
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Lys Ala Ala Arg  
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Cys Arg Gly Ile Asp Ala Lys His Trp Asn Ser Tyr Cys Thr Thr Thr  
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His Thr Phe Val Lys Ala Leu Thr Met Glu Gly Lys Asn Gln Ala Ala  
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Trp Arg Phe Ile Arg Ile Asp Thr Ala Cys Val Cys Val Leu Ser Arg  
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Lys Ser Gly Arg  
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His Thr Phe Val Lys Ala Leu Thr Met Asp Gly Lys Asn Gln Ala Ala  
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Lys Thr Gly Gln  
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Gln Ser Tyr Val Arg Ala Leu Thr Ala Asp Ala Gln Gly Arg Val Gly  
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Arg Thr Gly Arg  
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Gln Thr Tyr Val Arg Ala Leu Thr Ser Glu Asn Asn Lys Leu Val Gly  
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Lys Ile Gly Arg  
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Cys Arg Gly Ile Asp Lys Arg His Trp Asn Ser Gln Cys Arg Thr Thr  
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20 25 30

Trp Arg Phe Ile Arg Ile Asp Thr Ser Cys Val Cys Thr Leu Thr Ile  
35 40 45

Lys Arg Gly Arg  
50